

# Adlake

*Double  
hung*

*Aluminum  
Windows,*

THE ADAMS & WESTLAKE CO.

ELKHART INDIANA  
CHICAGO

ESTABLISHED 1857

## THE ADAMS & WESTLAKE COMPANY

EXECUTIVE OFFICES  
319 W ONTARIO STREET  
CHICAGO



GENERAL OFFICES  
AND FACTORIES  
ELKHART, INDIANA

ELKHART, INDIANA

Representatives in principal cities





14617

402

53259

## Foreword. . . .

The Adams & Westlake Company was established in 1857 and for over eighty years has been furnishing the transportation industries of this and other countries with many important accessories that add to the safety, the comfort, and the general well-being of the passengers and the employes of the railroads, street cars and buses.

For over twenty-five years the well known ADLAKE trademark has been attached to metal sash made of aluminum, bronze and stainless steel for use in cars of the finest type used in these public service industries.

Such sash has been designed and built to meet the most severe conditions incident to this service and combine the desirable qualities of very high efficiency as to weather-tightness, great ease of operation, low up-keep cost, great strength and great beauty. All secured by a combination of the use of the best of materials, skilled workmanship and proper design.

. . . .

The windows illustrated above are ADLAKE trade-marked and are those furnished by The Adams & Westlake Company to the Union Pacific Railroad for their fast, modern, stream-lined trains.

These trains meet weather conditions of almost all kinds in their swift runs from terminus to terminus. The dry, dusty plains of mid-summer. The extreme low temperatures of mid-winter in crossing the mountains. The snow and the rain and the high winds. A temperature change of over one hundred degrees and at train speeds of one hundred miles per hour or more.

Truly a severe test for any window.

These particular windows are double glazed and have an inside sash which is side hinged and swings inward for ease of cleaning. A complete unit firmly fixed and yet easily removed with the simplest of tools and without damage to the finish of the car.

ADLAKE WINDOWS are draftless and rattle-proof.

The knowledge secured in this long period making windows to meet such severe conditions has been utilized in the design and construction of the ADLAKE HOUSE WINDOW.





## The Adlake Aluminum Double Hung Window. A Modern Window for the Modern Home.

The above illustration shows how well the Adlake window blends with the modern trend towards beauty and utility.

Muntins may be arranged as shown, omitted, or arranged to suit. Even narrower sight lines may be used if desired. See following pages.

• • •

## For the Better Outlook, Use Adlake Windows.

Adlake windows are extremely weather-tight. They far exceed the requirements of the government as to air infiltration.

Adlake windows are extremely strong. They are made of a special aluminum alloy designed for corrosion resistance and strength.

Adlake windows will not shrink, rot nor swell.

Adlake windows operate very easily under all conditions of climate.

Adlake windows will not rattle either open or closed.

Adlake windows come fully weather-stripped.

Adlake windows do not require painting.

Adlake windows are fitted with sturdy stainless steel hardware.

Adlake windows are designed for either half or full length screens. Such screens may be purchased at any time and no special preparation is required to install them.

Adlake windows are equipped to take either storm sash or air-conditioning sash which may be installed at any time.

Adlake windows are not expensive. They cost but little if any more than a high grade wood sash when all factors of cost are considered.

Adlake windows are truly the Draftless window.

The modern window for the modern home.



## **Adlake Aluminum Double Hung Windows Are Made in Two Weights but in only one Quality—The Best.**

Adlake double hung aluminum windows are designed to fill a given opening which may be of the standard sizes as are listed or may be of the size you desire to carry out your ideas.

Adlake windows do not require a box frame as they have neither sash weights nor cords and thus very narrow mullions may be used.

Adlake windows are especially designed for installation in glass brick as by our use of a spiral balance in such cases, no cutting of the brick is needed and no shadows are caused by the ordinary method of weights or spring balances. See detail of window in glass brick on page 8.

In brick, stone, terra-cotta or stucco construction no frame is required on the outside and no trim on the inside. The plaster may be brought right up to the window frame and thus add to the beauty and subtract from the cost. See detail on page 9.

The need for exterior trim in frame construction is governed only by the need of such finish in this type of construction. See detail on page 4.

The use of windows in multiples as shown on page 5, the using of extremely narrow mullions gives much greater glass area than other types of construction made of bulkier materials permit.

In using Adlake windows on corners as shown on page 7 the corner section is only limited by the size of the structural member to be covered and the width of the window frame. The illustration shows about the smallest casing that may be used and permits the use of a lally column or I beam of four and one-half inches.

Non-metallic weather-strip is integrally built in and thus the cost of such is saved. Weather-stripping is estimated to save from 10% to 20% of your fuel cost.

Storm sash may be applied on the outside of the window. As it is top hung and side locked it may be installed from the inside of the building. A very great economy on tall buildings.

Adlake storm sash has an aluminum frame and a continuous rubber gasket all around the frame which makes a full two point contact and a dead air space between storm sash and window sash.

For special purposes such as in bedrooms and kitchens the storm sash may be equipped with the type of ventilator as shown on page 14.

Or the storm sash may have holding hooks which permit it to swing out from the bottom for two inches or four inches. Thus Adlake storm sash will meet the most exacting requirements.

Storm sash is only furnished glazed with DS-B glass with a muntin at the sight line of the check rail.

Storm sash properly applied saves from 8% to 10% of the fuel cost and thus soon pays for itself.

## **Adlake Windows Are Draftless Windows.**

Adlake windows reduce your maintenance costs, reduce your heating costs and increase your comfort.

Type A. is a substantial high grade window made of extruded aluminum sections and is intended for general use where windows are subjected to but normal usage and but little abuse.

It is intended for general use in homes and apartments where a window of extreme weather-tightness, great ease of operation, very low cost of maintenance, great beauty, and ease of installation at a moderate price is needed and where the openings generally do not greatly exceed three feet six inches wide by five feet six inches high. Though somewhat larger sizes may be furnished for special conditions.

This Type A. window incorporates all those features that a discriminating buyer looks for in a modern window for the modern building.

Type B. window is of the same general design as the Type A. but has much heavier extruded aluminum sections. Such heavier sections are required because this window is made in sizes up to six feet wide by eight feet high and for a window to satisfactorily fill an opening of this size much greater strength is required than for the smaller windows and for windows not subjected to the abuse that those in public and semi-public buildings must undergo.

This Type B. window is intended for such buildings as schools, hospitals, apartments, hotels, etc.

This Type B. window has great strength, extreme weather-tightness, ease of operation, low maintenance cost combined with very handsome, clean cut appearance.

Details of both windows are given in the succeeding pages.

ADLAKE Windows meet all requirements of the modern building.



# THE Adlake ALUMINUM WINDOW

In figure 1 below we give an illustration of the Adlake window in frame construction.

The glass is shown in a very popular arrangement of one large light in the lower sash and a number of smaller lights in the upper.

This arrangement may be varied to suit your ideas.

Adlake windows are extremely weather-tight.

Adlake windows will always operate easily under all climatic conditions.

Adlake windows do not require painting.

Adlake windows do not require additional weather-stripping. They already have the very best type built right in.

Adlake windows are draft-proof and rattle-proof.

Why try to heat all outdoors. Adlake windows keep the heat in and the cold out.

Adlake windows are especially valuable in dusty sections where their extreme air-tightness make them a boon to the critical house-wife.

FOR THE BETTER OUTLOOK, USE ADLAKE DRAFTLESS WINDOWS.



*Our catalogue is filed in Sweets.*



The cut below illustrates Adlake windows arranged in series.

Note narrow sight lines giving maximum glass area.

The drawing shows three windows in series. Any number may be so installed.

They also may be extended around the corner. See illustration on page 7 and the photograph on page 2.

The corner casing on page shows about the smallest practical casing that can be furnished.

This permits of a structural member or a lally column of four and one-half inches in diameter.

Corner casings may be furnished for such larger structural members as may be required within certain limits.

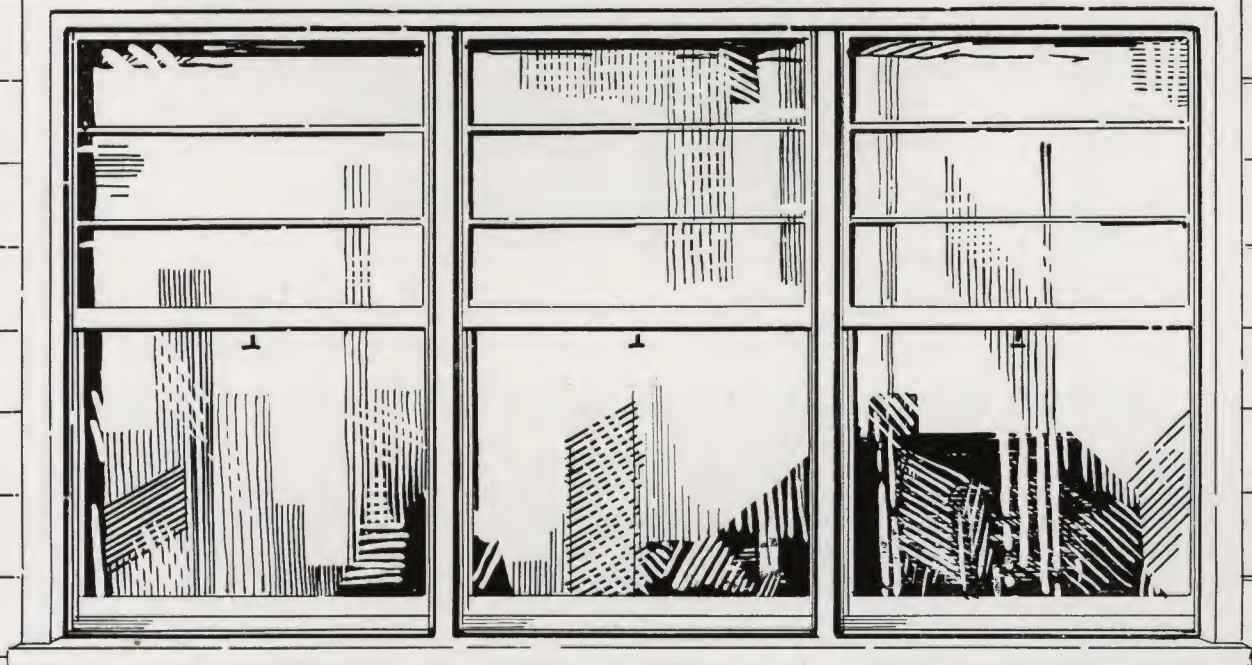


FIG  
2

## **Adlake Draftless Windows Are the Modern Window for the Modern Building.**

They are built of the best materials on the market by workmen who have perfected their skill in twenty-five years of making metal sash.

Adlake windows were designed by experts in window designing and were built up to a standard and not down to a price.

Yet Adlake windows are not expensive.

ADLAKE windows really save you money. They keep the heat in and the cold and dust out.

Adlake windows are built by The Adams & Westlake Company which was established in 1857 and who probably furnished the windows in that fast, modern, stream-lined train you admired so much.

*Our catalogue is filed in Sweets.*

## **Adlake Windows Installed in Series and as Corner Windows.**

Figure three on the opposite page shows a typical Adlake installation in series and around a corner.

Any number of windows may be installed in this manner.

Muntin arrangements are merely illustrative and may be omitted or arranged to suit you.

Detail of the corner post and casing is shown on page 11.

See photograph on page two and judge how such an arrangement lightens a room and dresses it up.

• • •

## **Adlake Windows in the Traditional Georgian Type Brick Residence.**

In figure 4 on the opposite page we illustrate an Adlake window in the well known Georgian or Colonial type brick building.

The muntin arrangement as shown is a very popular one.

A large light in the lower sash and a number of smaller ones in the upper. This muntin arrangement may be varied to meet your ideas.

A happy combination of a classical type of architecture combined with the most modern materials and design.

This shows that it is not necessary to use old types of windows to achieve the beauty and harmony of design you want.

Adlake windows are completely weather-stripped.

Adlake windows do not require painting.

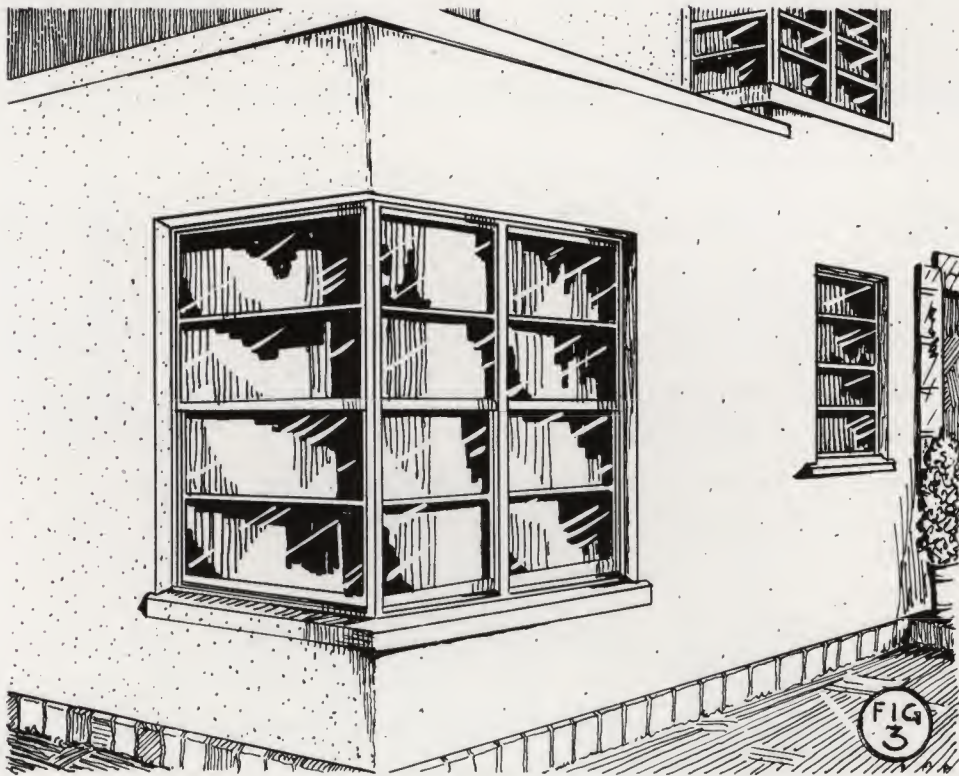
Adlake windows will not rot, nor swell nor shrink.

Adlake windows will not rattle either open or closed.

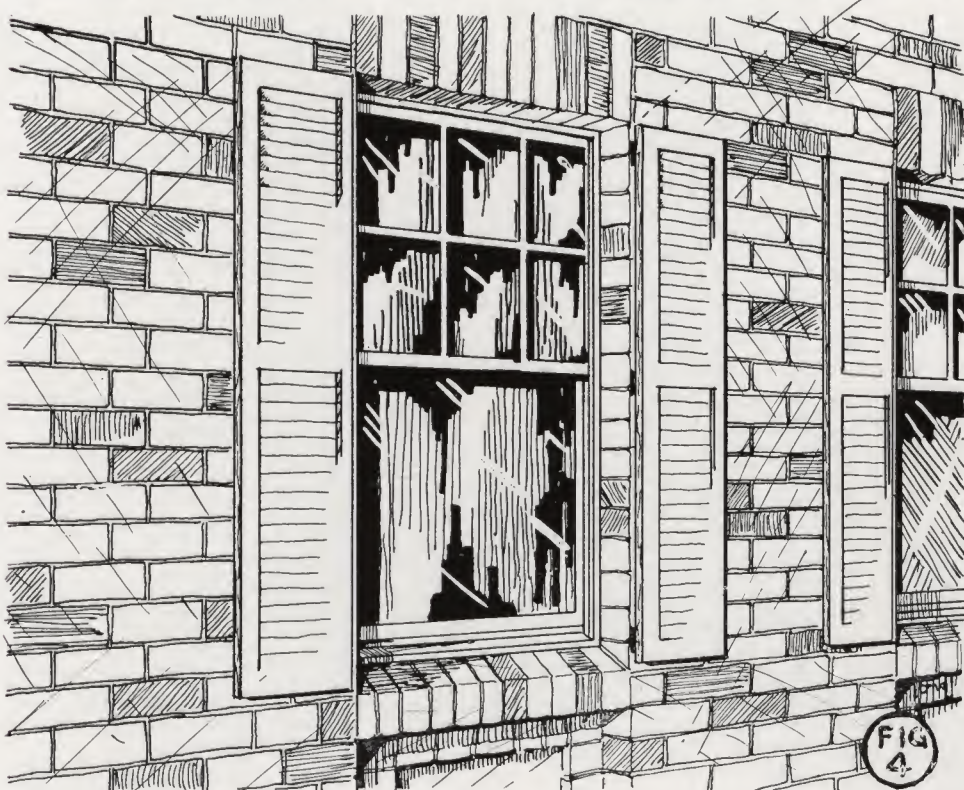
Adlake windows will always operate easily.

*Our catalogue is filed in Sweets.*





ADLAKE WINDOW WITH CORNER MULLION



ADLAKE WINDOW IN BRICK CONSTRUCTION



## Adlake Double Hung Aluminum Windows in Glass Block.

In figure 5 below we illustrate an Adlake window in glass block.

In furnishing windows for glass block installation we use a special type balance which obviates protrusions beyond the frame line.

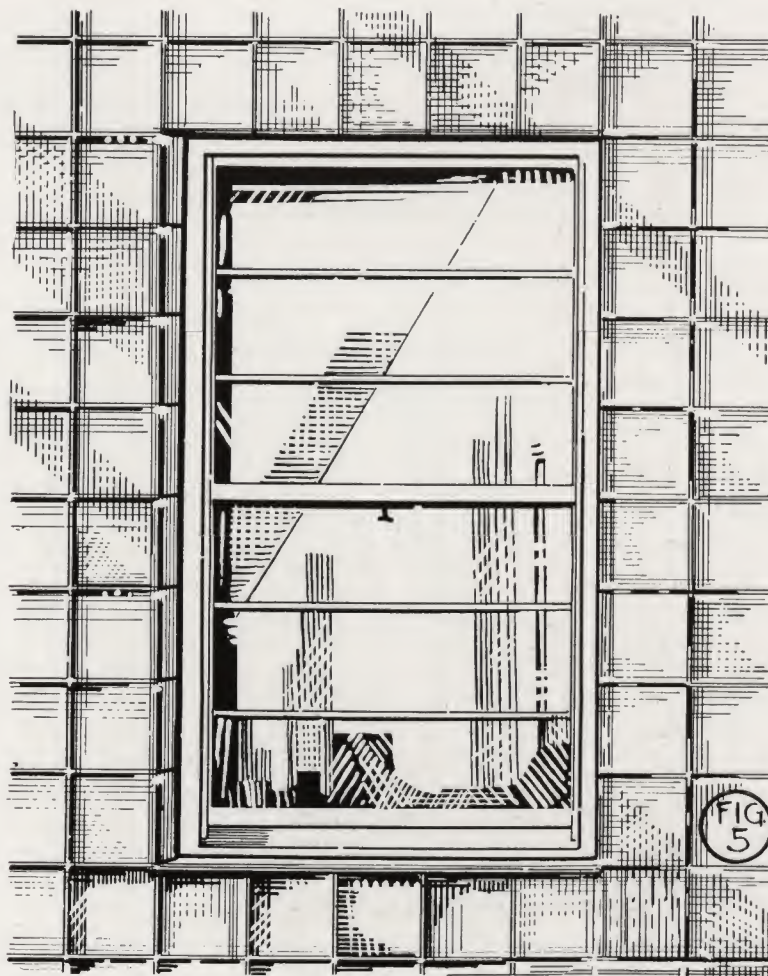
This does away with shadows either from inside or outside through the glass wall.

This construction also permits of the use of a flat lintel and requires no special arrangement of steel lintels nor cutting of the glass block.

Having no weight boxes the Adlake window carries out the glass idea by giving the maximum of glass area.

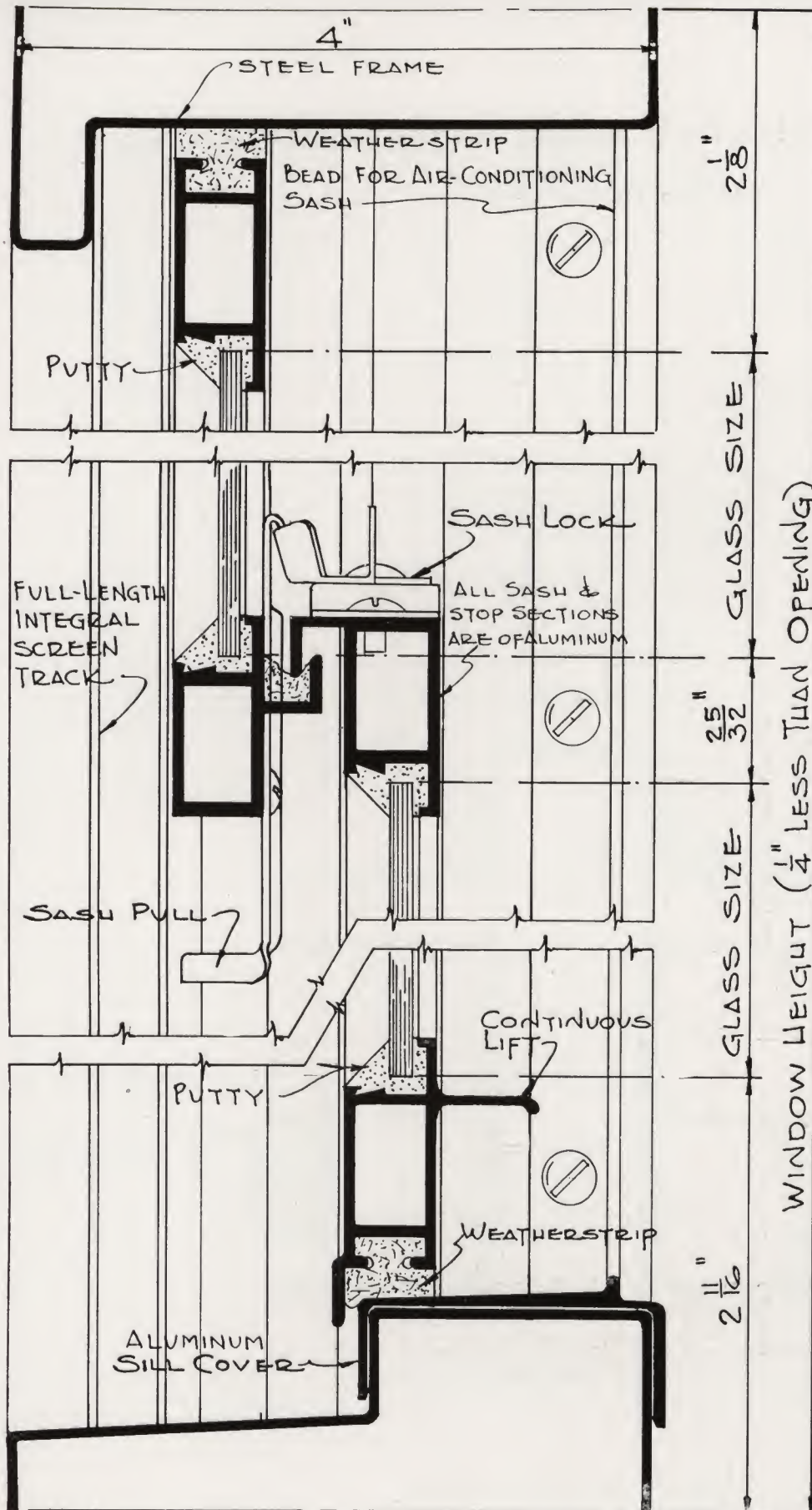
Adlake windows being made of sizes to fill a given opening they may be installed without cutting of glass block nor are you limited in the size or arrangement of the blocks.

The Adlake window is truly a modern window for the modern building.



*Our catalogue is filed in Sweets.*





F.S.  
MUNTIN  
DETAIL

F.S.  
VERTICAL  
SECTION  
THRU  
WINDOW  
(TYPE A  
MEDIUM)



## Mullion Arrangement for Multiple Windows in the Type A Medium Weight.

The illustration below gives in full size a section through the mullion of a typical installation of multiple windows such as is shown on pages 2 and 7.

Please note the narrow sight lines whereby the maximum of glass area is given together with the requisite strength.

This drawing also illustrates why Adlake windows are extremely weather-tight.

Note the serrated surfaces making multiple contacts with the weather-strip.

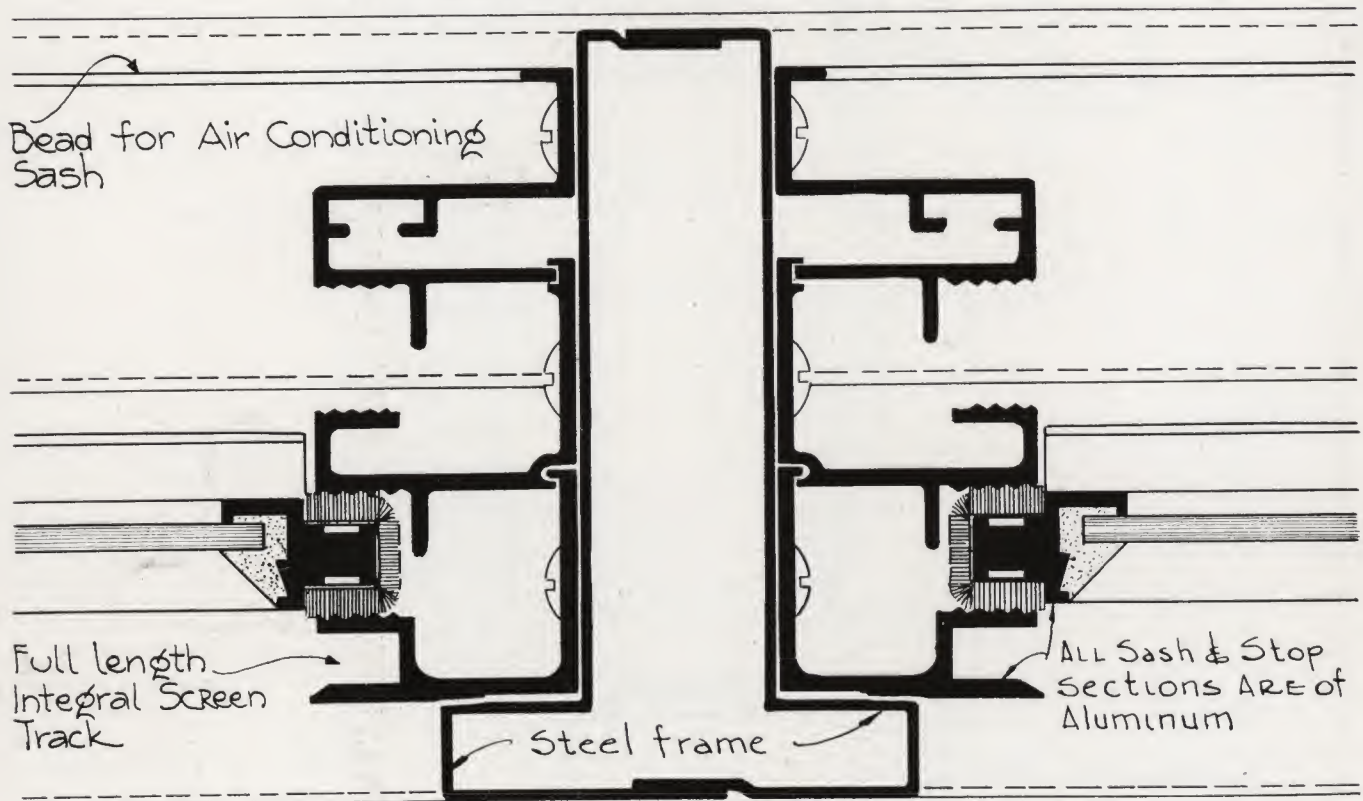
Note the built in weather-strip.

These are among the features that make the Adlake window a truly draftless window.

Adlake windows save you money. They keep the heat in and the cold and dust out.

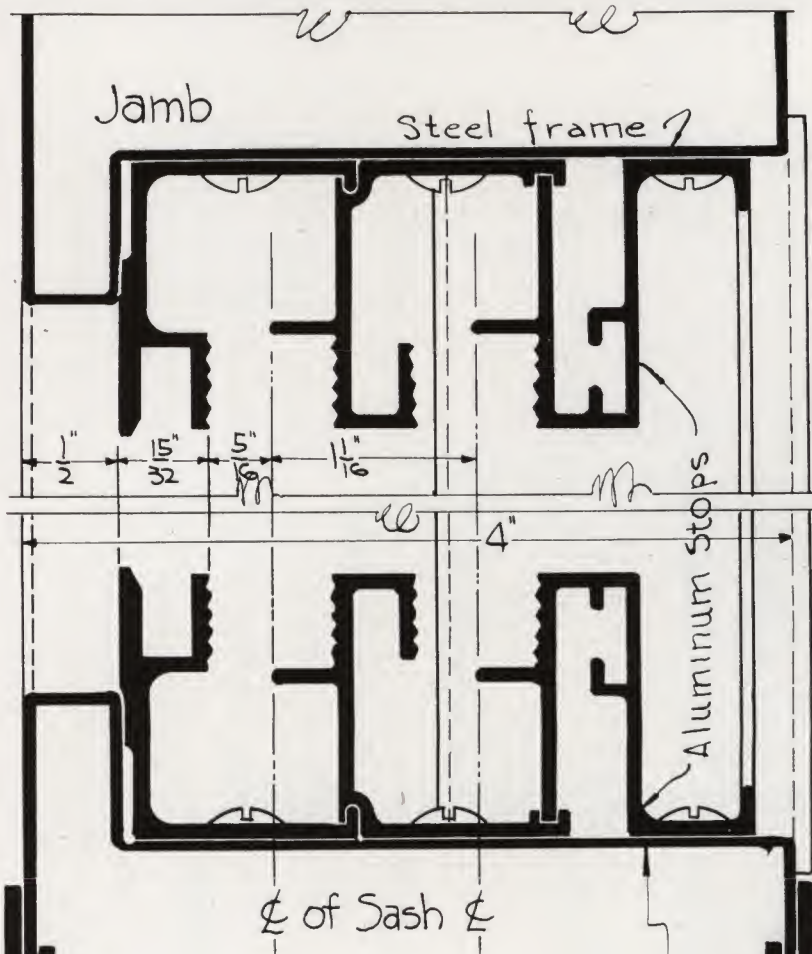
For The Better Outlook, use Adlake windows.

Type "A" window  
MULLION FULL SIZE



*Our catalogue is filed in Sweets.*





This illustration shows a typical corner casing as is used in window arrangement as shown in photograph on page two and in drawing of a corner window illustration on page 7.

This drawing shows provision for a lally column or other structural member up to four and one-half inches in diameter.

Larger members may be so cased if desired.

**ADLAKE WINDOWS ARE  
TRULY DRAFTLESS.**

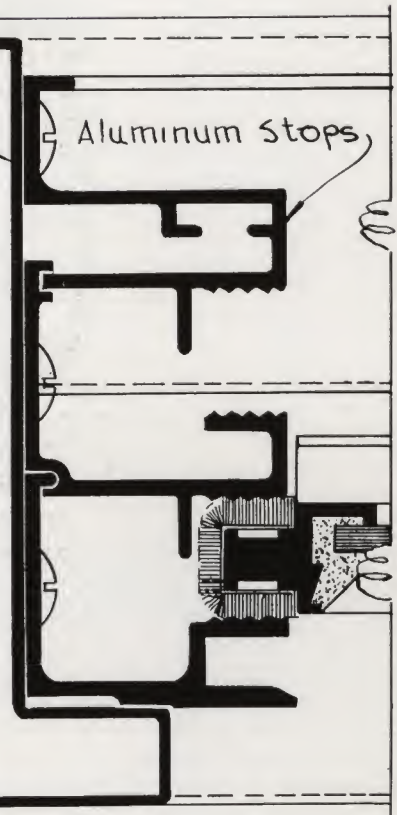
Steel Frame

Space for Structural Member

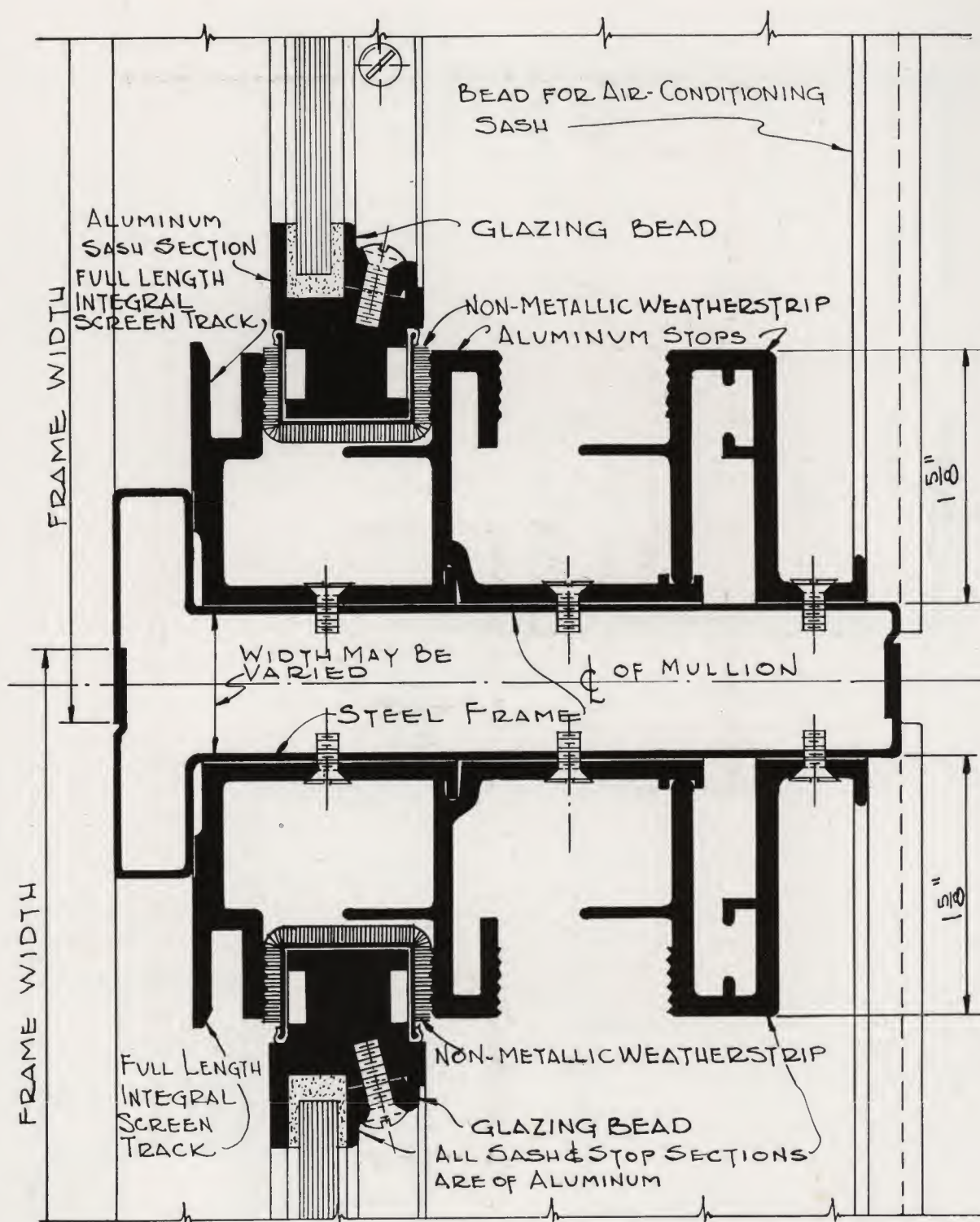
Corner Mullion for Type "A" window shown

Arrangement for Type "B" window similar, but with much larger sections

**CORNER CASING**  
Full Size

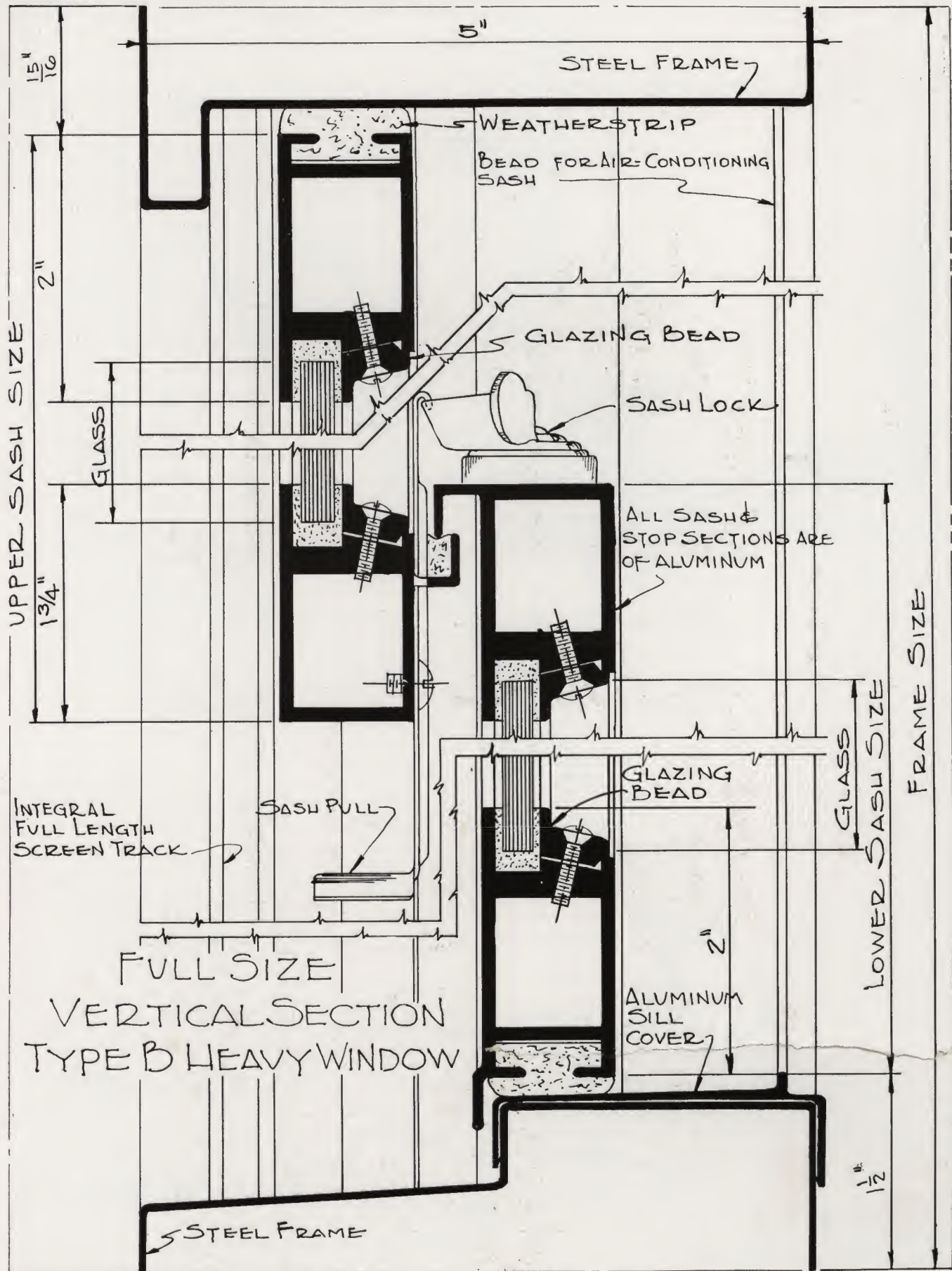






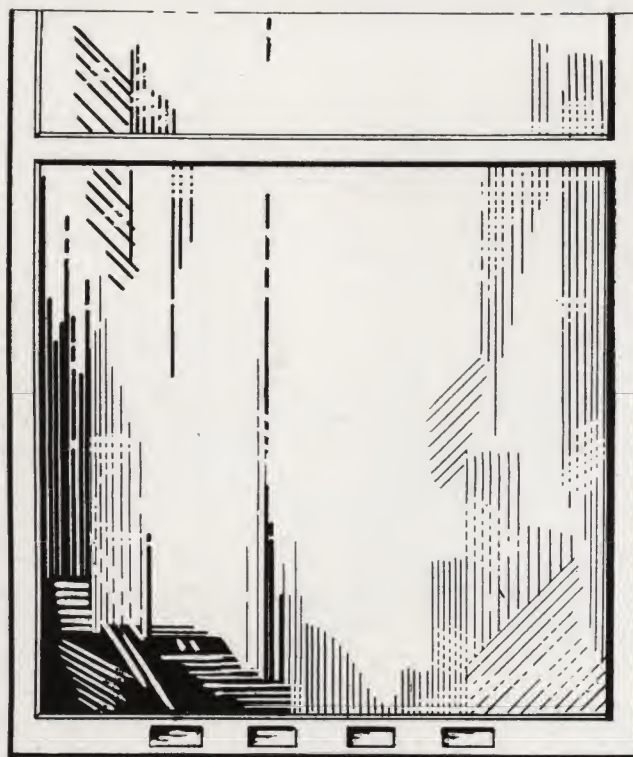
F.S. MULLION SECTION  
 TYPE "B" HEAVY WINDOW  
 FOR CORNER MULLION  
 SEE ARRANGEMENT  
 ON PAGE No. 11



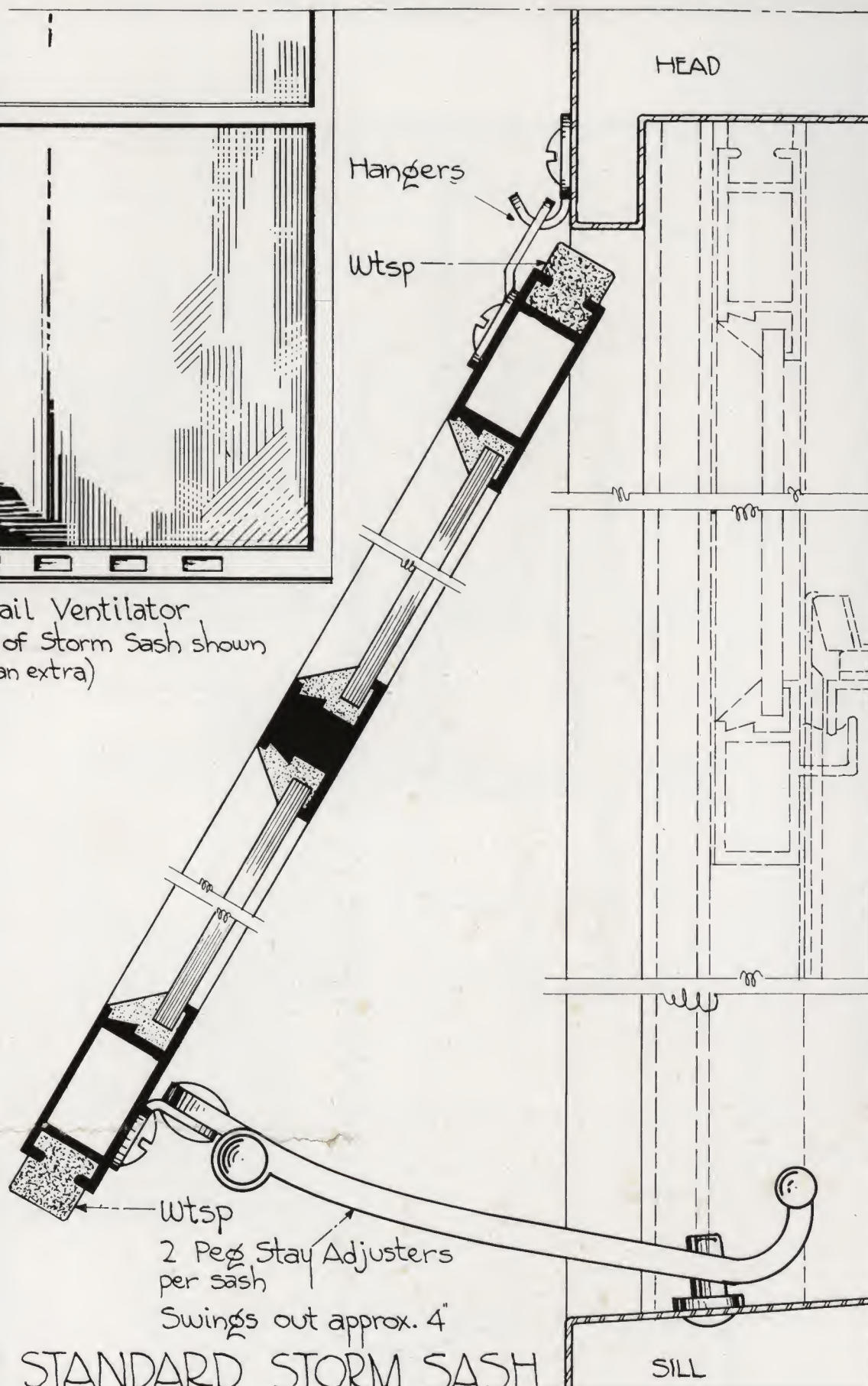




# THE Adlake ALUMINUM WINDOW

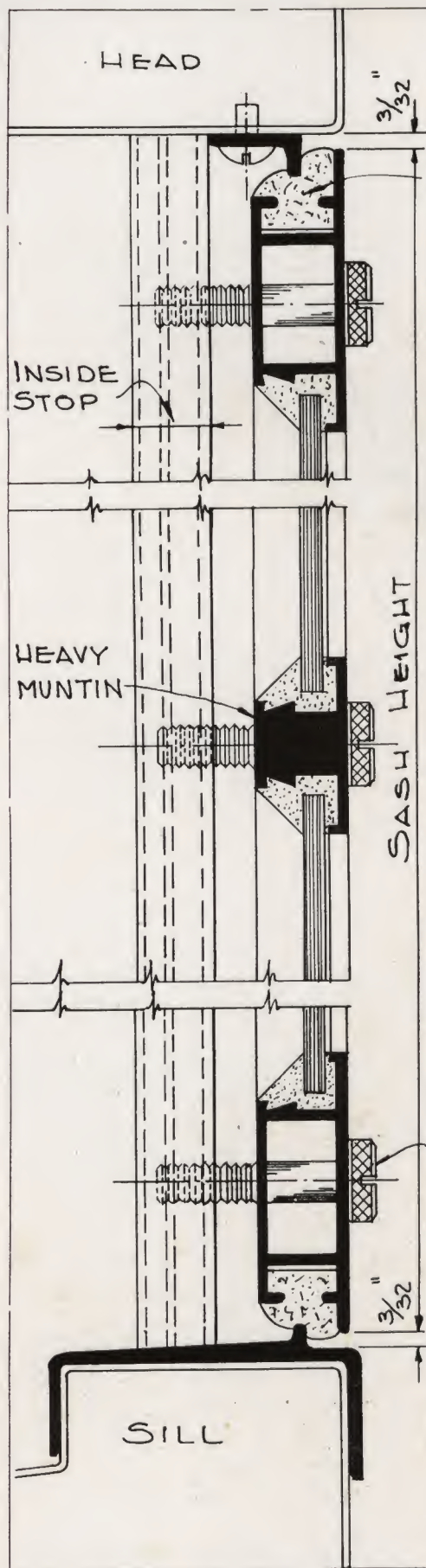


"ADLAKE" Rail Ventilator  
Outside face of Storm Sash shown  
(Furnished as an extra)



"ADLAKE" STANDARD STORM SASH





WEATHERSTRIP

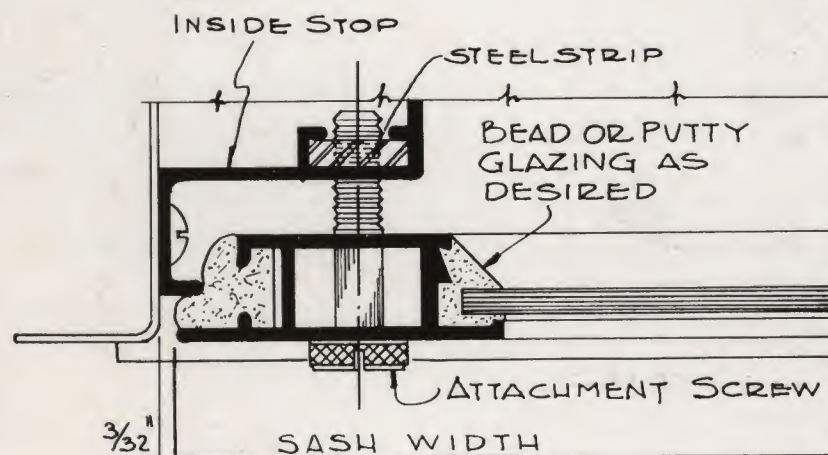
INSIDE STOP

HEAVY MUNTIN

SASH HEIGHT

ATTACHMENT SCREW

SILL



JAMB SECTION

VERTICAL SECTION  
THRU  
AIR-CONDITIONING  
SASH

SUITABLE FOR TYPE A (MEDIUM)  
OR TYPE B (HEAVY)



## Type A. Adlake Windows.

Adlake Type A. Medium weight aluminum double hung windows are designed and built for extreme weather-tightness, great ease of operation under all conditions of atmosphere, striking beauty and to render the utmost in satisfaction in use and in upkeep for many years.

Adlake Type A. windows are reasonable in cost and are intended for installations where first cost is an important factor.

Reasonable in cost does not mean cheapness of material nor skimping of workmanship. They have the same high grade workmanship, materials, and finish as have made the trademark "Adlake" favorably known all over this and other countries.

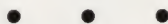
Aluminum sashes and stops, stainless steel hardware, sturdy and handsome. Built-in weather-strip.

Integral full length screen track. Storm and air-conditioning sash beading for full two point contact.

A few of the standard sizes are listed on opposite page. Those marked ● are in stock at our Elkhart, Indiana, plant for ready shipment.

Windows are shipped open and without muntins unless otherwise specified. If with muntins, specify arrangement.

Type A. windows are normally outside putty glazed. Aluminum bead glazing will be furnished as an extra.



## Type B. Heavyweight Windows.

Type B. heavy weight windows are of extra heavy construction and while of the same general design as our Type A. windows the sizes and weights of the various parts have been increased so as to give the utmost in strength where windows are subject to severe usage and sometimes to abuse.

Type B. windows are intended for such installations as schools, dormitories, hotels, hospitals, apartment houses, etc., where a window of handsome appearance, great ease of operation, a very high degree of efficiency, and very low cost of maintenance is essential.

They are made in all sizes up to six feet wide by eight feet high and with any arrangement of muntins.

They may be glazed with any thickness of glass up to  $\frac{1}{4}$ ".

Inside aluminum bead glazing with stainless steel button head screws at close intervals.

Integral built-in weather-strip. Integral full length screen track.

Beads for storm sash and for air-conditioning sash which give full two point contact all around.

See details of full size sections on other pages.

*Our catalogue is filed in Sweets.*



## Weather Stripping.

The weather tightness and ease of operation of your windows are such important factors in the comfort and economy of heating of your home that we think that the means whereby Adlake achieves such extraordinary results are worthy of more than just a brief mention.

The non-metallic weather-stripping used is a special high pile woven fabric of especially selected yarns chosen for resiliency and long wearing qualities. This fabric is tightly woven on a firm, tough backing, this in turn is formed around an alloy metal channel. This channel is then firmly fastened to the stiles of the sash. Each sash having a channel each side for the full length of the stile.

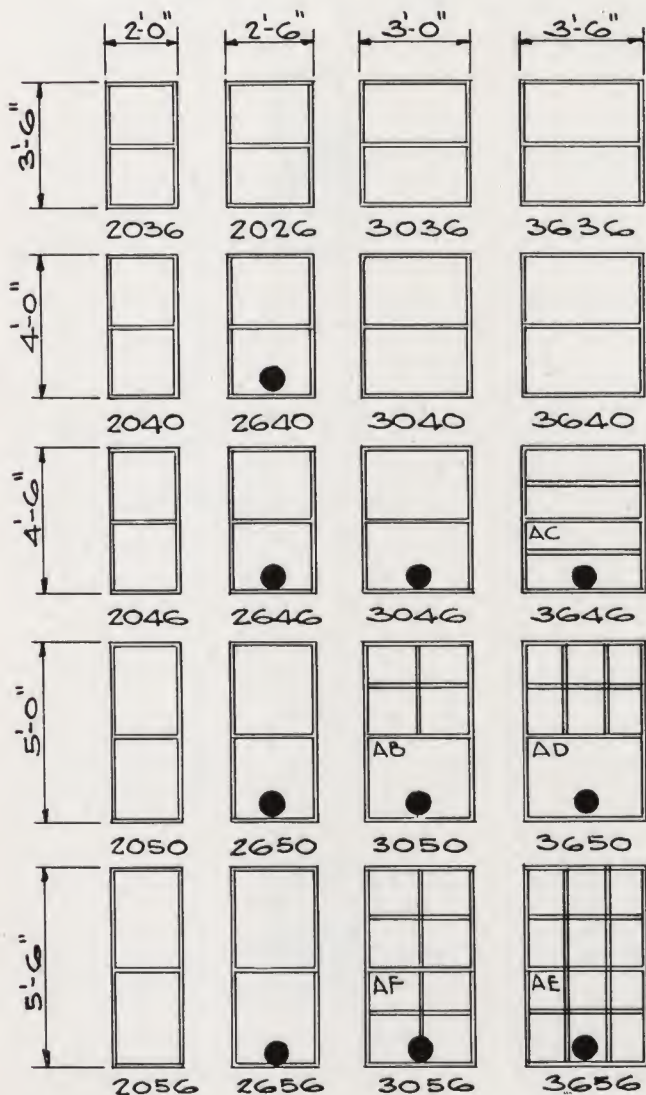
Only the ends of the pile are in contact with the serrated aluminum stops. This combination of a channel shape, serrated stops, and numberless pile ends making an unusually efficient baffle for keeping the weather out and the warmth in the building.

As only the pile ends are in contact with the stops the action is somewhat similar to the action of a ball bearing as there is no pinching of the fabric to secure tightness and no scrubbing action to shorten the wearing life.

This patented weather-stripping is highly efficient from every angle. It makes an extremely weather-tight window. It is not affected by climatic conditions and thus your windows always operate easily. It is made of materials selected for their particular purpose and made and treated so as to serve that purpose over a period of many years.

May we urge that you buy no window until you have investigated The ADLAKE.

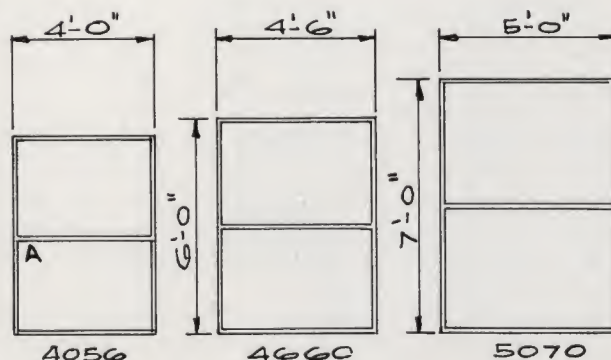
## SCHEDULE OF SIZES



● STOCK IN STANDARD CONSTRUCTION

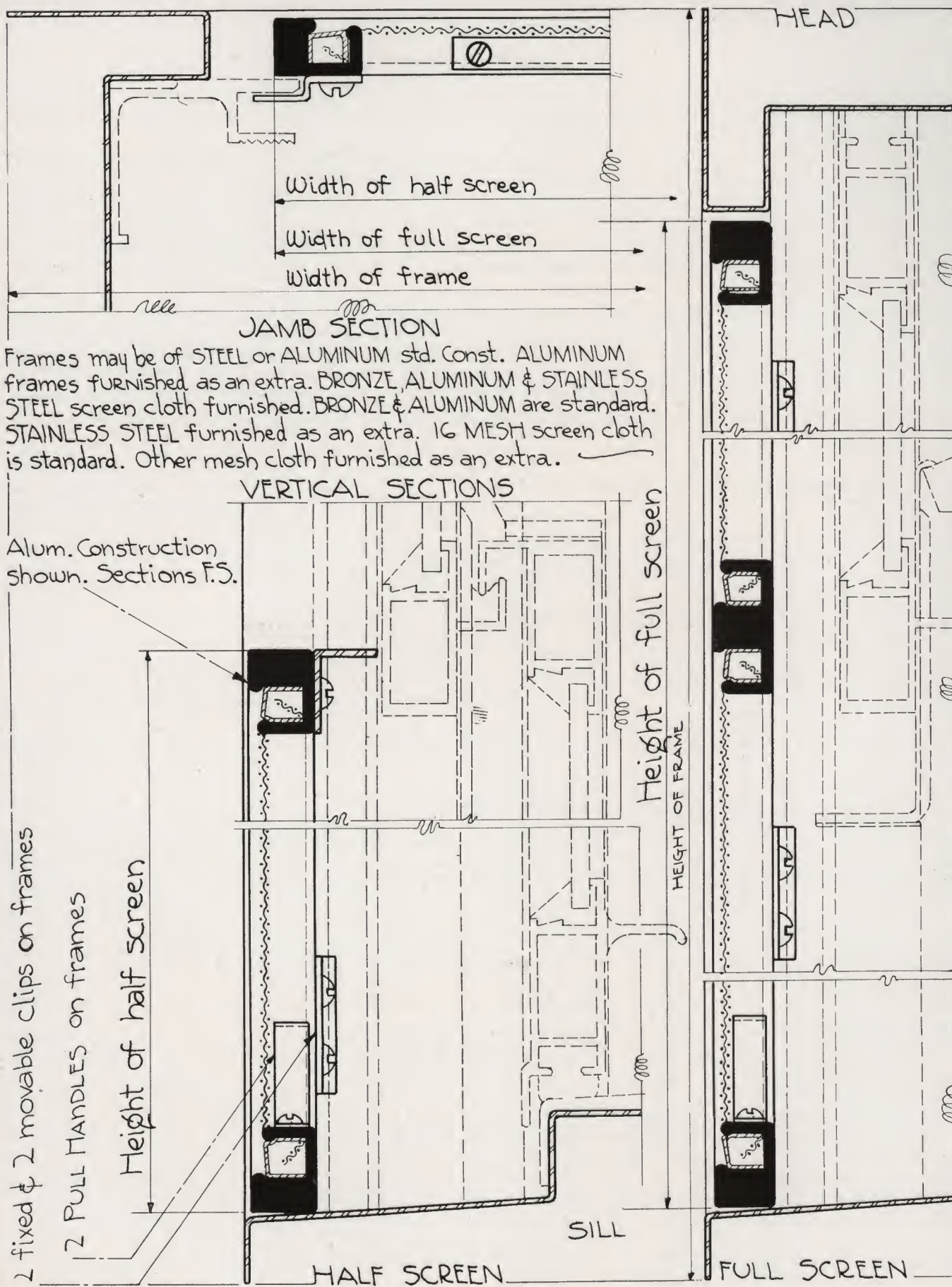
DIMENSIONS SHOWN ARE OPENING DIMENSIONS

MUNTIN ARRANGEMENTS AS DESIRED, IN ANY SIZE WINDOW, SEE SEVERAL TYPICAL EXAMPLES ON THIS SHEET. ARRANGEMENTS, OF MUNTINS, ARE INDICATED BY THE LETTERS A-AC-AB, ETC





# THE Adlake ALUMINUM WINDOW





## Specifications for Adlake Aluminum Double Hung Windows.

All double hung windows as shown on drawings pertaining to this contract (insert name and location of same) shall be Adlake Type A. medium weight or Adlake Type B. heavy weight (specify which) of the number, sizes, and muntin arrangements as indicated on the architects drawings and covered by this specification.

Such windows shall be furnished complete (less glass and glazing) with sashes, frames, stops, weather-strip, balances, and hardware as indicated in the Adams & Westlake catalogues.

All windows shall be equipped with full length integral screen tracks and integral beading for storm windows on the outside and for air-conditioning sash on the inside.

Type A. windows are to be prepared for outside putty glazing. See details.

Type B. windows are to be prepared for inside bead glazing. This bead strip is to be extruded aluminum so designed as to hold firmly in place the glass of the sash and to be screwed in place by button head stainless steel screws. See details.

Note: Where windows are to be installed in glass block or where a flat lintel is required a spiral type balance is to be furnished. Standard balances are of the metal tape spring balance type. Either type optional at the same price.

Note: The manufacturer of these windows shall furnish shop drawings for the architects approval so as to be sure that the ideas of the architect are correctly interpreted. Such drawings shall be furnished in triplicate. Two sets for the files of the architect and one set to be approved and returned to the manufacturer.

• • •

## Specifications for Adlake Screens.

All screens are to be furnished by The Adams & Westlake Company for the windows above indicated and are to fit well and truly.

Screens are to be half length sliding or full length fixed (indicate which) and are to have frames of aluminum or of steel (indicate which) filled with 16-mesh screen cloth of bronze, aluminum or stainless steel. (Indicate which).

Screens are to have removable splines for easy replacing of screen cloth and are to have screen clips of heavy gauge steel for securely locking them in place in the screen track as is shown in detail on pages 9, 10, 11 and 12.

If steel frame screens are to be supplied they are normally coated with aluminum enamel. Other colors are optional on orders of more than fifty screens.

• • •

Note: Window frames shall be installed in the walls as they are built by others and made square and true. After the rough work is completed the sashes are to be installed in such frames and all balances, hardware, etc., are to be installed and the window installation completed.

The Adams & Westlake Company does not install windows. They do however arrange for such work through competent window erectors and assume the responsibility of seeing that the installation is completed within the time set forth.

**THE ADAMS & WESTLAKE COMPANY**

*Established 1857*

ELKHART

INDIANA



## Specifications for Adlake Storm Sash.

Storm sash shall be furnished of the proper sizes for the windows shown on drawings covering this contract.

Storm sash shall have frames of extruded aluminum fitted with a groove and with a sponge rubber gasket completely encircling the sash frame which gives a two point contact around the sash perimeter.

Storm sash shall have a cross muntin at the sight line of the check rail.

Storm sash should be glazed with double strength B. quality glass. Other glass may be furnished up to  $\frac{1}{8}$ " polished plate.

Storm sash shall be equipped with stainless steel hooks and with stainless steel side locks which shall be so installed as to hold the sash firmly against the beading on the outside of the window and forming a complete dead air space between window sash and storm sash.

Storm sash shall have two hinged stays of design as shown in the Adams & Westlake Catalogue and which stays shall enable the storm sash to be extended out from the bottom so as to give ample ventilation in mild weather.

Note: Storm sash for windows indicated by special marking shall be equipped with the Adlake rail ventilator as shown on page 14 of this catalogue.

• • •

## Specifications for Adlake Air-Conditioning Sash.

Air-conditioning sash shall be furnished of the proper sizes for the windows shown on drawings covering this contract.

Air-conditioning sash shall have frames of extruded aluminum fitted with a groove in which is firmly cemented a sponge rubber gasket completely encircling the sash and making a complete two point contact with the integral bead on the inside of the window frame.

Air-conditioning sash shall be equipped with knurled head screws firmly holding the sash in contact and forming a complete dead-air space between window and air-conditioning sash.

Such sash shall have a cross muntin at sight line of check rail and shall be putty glazed with double strength B. quality glass. Other glass at extra cost.

Air-conditioning sash shall have handles so that it may be easily handled when need of removal should arise.

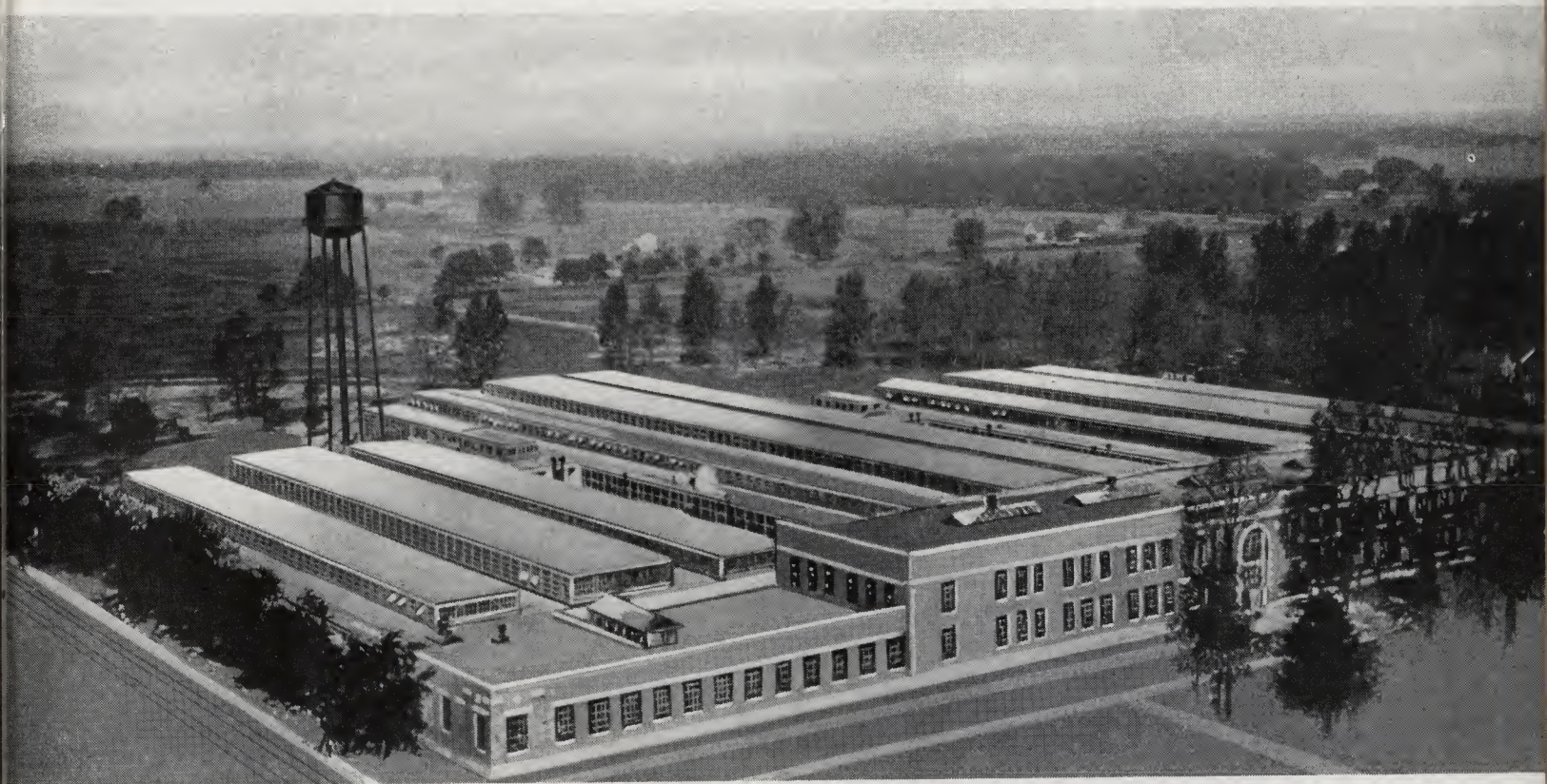
• • •

ADLAKE WINDOWS ARE DRAFTLESS, DUST TIGHT, EASY OPERATING.

The modern window for the modern building.

*Our catalogue is filed in Sweets.*





Plant Number One



Plant Number Two



**ADLAKE**  
**ALUMINUM**  
**WINDOWS**



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